

WHAT IS CLAIMED IS:

1. A method for correcting scanning signals of an incremental position transducer having deviations from ideal signals expected by a downstream evaluation unit, comprising:
  - feeding the scanning signals to a correction unit in response to a signal request;
  - linking the scanning signals in the correction unit to correction data generated in accordance with active values of the scanning signals; and
  - exclusively feeding scanning signals for generating correction data to the correction unit for at least one predefined time segment following each request of new scanning signals to be corrected.
2. The method according to claim 1, further comprising checking the signal request by a logic device to determine whether the signal request applies to scanning signals that are to undergo a correction in the correction unit or to scanning signals for generating correction data.
3. The method according to claim 2, further comprising performing no signal requests for a predetermined time segment that apply to scanning signals to be corrected in the correction unit.
4. The method according to claim 1, wherein the predefined time segment is shorter than a shortest difference in time between two signal requests of new scanning signals to be corrected.
5. The method according to claim 1, wherein the signal requests of scanning signals to be corrected occur in constant time intervals, the predefined time segment shorter than the constant time intervals.

6. The method according to claim 1, further comprising digitizing analog signals of the scanning signals before the step of feeding the scanning signals to the correction unit.

7. The method according to claim 1, wherein the step of feeding the scanning signals to the correction unit includes feeding at least two scanning signals to be corrected to the correction unit in response to request of scanning signals to be corrected, the two scanning signals being out-of-phase with each other.

8. The method according to claim 1, further comprising triggering the signal request by at least one of a microprocessor of the correction unit and an external pulse.

9. The method according to claim 1, further comprising generating the correction data as a function of active values of the scanning signals in a microprocessor.

10. The method according to claim 1, further comprising correcting the scanning signals in accordance with at least one predefined correction algorithm.

11. A device for correcting scanning signals of an incremental position transducer having deviations from ideal signals expected by a downstream evaluation unit, comprising:  
an arrangement configured to perform a method including the steps of:

feeding the scanning signals to a correction unit in response to a signal request;

linking the scanning signals in the correction unit to correction data generated in accordance with active values of the scanning signals; and

exclusively feeding scanning signals for generating data to the correction unit for at least one predefined time segment following each request of new scanning signals to be corrected.

12. A device for correcting scanning signals of an incremental position transducer having deviations from ideal signals expected by a downstream evaluation unit, comprising:

means for feeding the scanning signals to a correction unit in response to a signal request;

means for linking the scanning signals in the correction unit to correction data generated in accordance with active values of the scanning signals; and

means for exclusively feeding scanning signals for generating data to the correction unit for at least one predefined time segment following each request of new scanning signals to be corrected.